

Improving Community Capacity in Facing Disasters through Flood Hazard Structural Mitigation Training in Margoagung Village, Kapanewon Seyegan.

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ABSTRACT

The implementation of this service activity is motivated by the importance of active community participation in overcoming potential natural disasters in Indonesia. Indonesia is a country with a high potential for natural disasters, one of which is the flood disaster that occurs regularly in the rainy season. Community participation in flood disaster management is very important, starting from the introduction of potential flood disasters, flood disaster mitigation, and concrete steps taken to overcome flood problems. This activity was carried out in the Golden Village of UNY, Krapyak IX Padukuhan, Margoagung Sub-district, Kapanewon Seyegan, Sleman Regency. This area faces the threat of flooding and inundation when there is high rainfall. In addition to helping to overcome the problem of flood threats faced by the community in Kampung Emas Krapyak IX, this service activity is also expected to become a pilot for community-based disaster mitigation for other areas that face similar problems.

This community service activity was carried out with the following objectives: (1) Provide training to increase understanding and community participation in the development of infiltration ponds in Krapyak hamlet. (2) Develop a prototype implementation of infiltration ponds and embankments as structural mitigation to reduce the impact of flooding. (3) To develop a community-based disaster management system in Krapyak hamlet. This activity was conducted from May to September 2023. The results obtained from this activity are as follows: (1) The community gained additional knowledge about potential disasters in Indonesia and flood disaster mitigation, especially structural mitigation. This knowledge was obtained from counseling activities held on July 14, 2023. (2) After the counseling, the community built infiltration ponds and embankments as a form of structural flood disaster mitigation. The construction was carried out in the Kampung Emas area as determined jointly between the service team and the community after the training. (3) A community-based disaster management system was initiated in Kampung Emas through the construction of buildings to control and reduce flooding, followed by the management of these buildings with institutional institutions managed by the community itself.

Kata Kunci: *Structural mitigation, flood hazard, disaster management*